PATENT COOPERATION TREAS.

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

International application No.	Applicant's or agent's file reference		f Transmittal of International Search Report 20) as well as, where applicable, item 5 below.
PCT/US 00/ 08586 31/03/2000 02/04/1999 Applicant THE BRIGHAM AND WOMEN'S HOSPITAL, INC. This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau. This International Search Report consists of a total of	B0801/7169W0		(Farliest) Priority Date (day/month/year)
This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau. This International Search Report consists of a total of			
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This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau. This International Search Report consists of a total of	Applicant		
This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau. This International Search Report consists of a total of	THE DETCHAM AND HOMEN'S HE	OCDITAL INC	
This International Search Report consists of a total of	THE BRIGHAM AND WOMEN 3 HO	USFITAL, INC.	
It is also accompanied by a copy of each prior and document cited in this report. 1. Basis of the report a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)). b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing: contained in the international application in written form. filed together with the international application in computer readable form. furnished subsequently to this Authority in computer readable form. furnished subsequently to this Authority in computer readable form. The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished. The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished. Certain claims were found unsearchable (See Box I). Unity of Invention is lacking (see Box II). 4. With regard to the title, With regard to the title,			nority and is transmitted to the applicant
a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)). With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing: contained in the international application in written form. filed together with the international application in computer readable form. furnished subsequently to this Authority in computer readable form. X the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished. X the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished. Certain claims were found unsearchable (See Box I). Unity of InventIon is lacking (see Box II). 4. With regard to the title, The text is approved as submitted by the applicant.	1		report.
language in which it was filed, unless otherwise indicated under this item. the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)). b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing: X contained in the international application in written form. filed together with the international application in computer readable form. furnished subsequently to this Authority in written form. X the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished. X the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished. Certain claims were found unsearchable (See Box I). Unity of Invention is lacking (see Box II). 4. With regard to the title, X the text is approved as submitted by the applicant.	· ·		
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b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing: X		as carried out on the basis of a translation of the	ne international application furnished to this
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3. Unity of Invention is lacking (see Box II). 4. With regard to the title, X the text is approved as submitted by the applicant.	the statement that the info	ormation recorded in computer readable form is	s identical to the written sequence listing has been
4. With regard to the title, X the text is approved as submitted by the applicant.	2. X Certain claims were four	nd unsearchable (See Box I).	
the text is approved as submitted by the applicant.	3. Unity of Invention is laci	king (see Box II).	
the text is approved as submitted by the applicant.	4. With regard to the title.		
		bmitted by the applicant.	
5. With regard to the abstract,	5. With regard to the abstract.		
the text is approved as submitted by the applicant.	l con	bmitted by the applicant.	
the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.	the text has been established	hed, according to Rule 38.2(b), by this Authori	ty as it appears in Box III. The applicant may, port, submit comments to this Authority.
6. The figure of the drawlngs to be published with the abstract is Figure No.			
as suggested by the applicant. X None of the figures.	as suggested by the appli	cant.	X None of the figures.
because the applicant failed to suggest a figure.	because the applicant faile	ed to suggest a figure.	
because this figure better characterizes the invention.	because this figure better	characterizes the invention.	

INTERNATIONAL SEARCH REPORT

ernational Application No PCT/US 00/08586 A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 A61K31/7088 A61K38/00 A61K39/395 A61K38/20 A61P37/02 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) A61K IPC 7 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ, BIOSIS C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No. Citation of document, with indication, where appropriate, of the relevant passages Category ° 65 V.K. PERUMAL ET AL.: "PROTECTIVE EFFECT χ OF INTERLEUKIN-2 ON EXPERIMENTAL INTRA-ABDOMINAL ABSCESS DEVELOPMENT DUE TO BACTEROIDES FRAGILIS.' CLINICAL RESEARCH, vol. 38, no. 2, 1990, page 550A XP000952900 NEW YORK, N.Y., US page 550A, right-hand column, paragraph 2 66 Υ DE 37 04 389 A (BLUTSPENDEDIENST DT ROTE 66 Υ KREUZ) 25 August 1988 (1988-08-25) page 3, line 19 - line 22; claims WO 96 07427 A (BRIGHAM AND WOMEN'S 1 - 146Α HOSPITAL, INC.) 14 March 1996 (1996-03-14) cited in the application page 11, line 4 - line 14; claims; table 3

X Further documents are listed in the continuation of box C.	Patent family members are listed in annex.		
Special categories of cited documents : A* document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention		
"E" earlier document but published on or after the international filing date "I" document which may throw doubts on priority claim(s) or	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone		
which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the		
"O" document referring to an oral disclosure, use, exhibition or other means	document is combined with one or more other such docu- ments, such combination being obvious to a person skilled in the art.		
"P" document published prior to the international filing date but later than the priority date claimed	"&" document member of the same patent family		
Date of the actual completion of the international search	Date of mailing of the international search report		
20 October 2000	07/11/2000		
Name and mailing address of the ISA	Authorized officer		
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Ryckebosch, A		

Fax: (+31-70) 340-3016

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INTERNATIONAL SEARCH REPORT

ternational Application No PCT/US 00/08586

	ation) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Category °	Citation of document, with indication, where appropriate, or the relevant passage	
A	A.O. TZIANABOS ET AL.: "STRUCTURAL CHARACTERISTICS OF POLYSACCHARIDES THAT INDUCE PROTECTION AGAINST INTR-ABDOMINAL ABSCESS FORMATION." INFECTION AND IMMUNITY, vol. 62, no. 11, November 1994 (1994-11), pages 4881-4886, XP002150692 WASHINGTON, US cited in the application the whole document	1-146
Α	W.M. KALKA-MOLL ET AL.: "BACTEROIDES FRAGILIS NCTC 9343 CAPSULAR POLYSACCHARIDE PS A AND THE EFFECT OF CHAIN LENGHT ON T CELL PROLIFERATION." ABSTRACTS OF THE 98 TH GENERAL MEETING OF THE AMERICAN SOCIETY FOR MICROBIOLOGY, ATLANTA, US, MAY 17-21, 1998, vol. 98, 1998, page 123 XP002150693 WASHINGTON, US abstract nr. B-405	1-146
A	WO 96 32119 A (YEDA RESEARCH AND DEVELOPMENT CO., LTD. ET AL.) 17 October 1996 (1996-10-17) claims	1-146
P,X	A. TZIANABOS ET AL.: "T CELL ACTIVATION BY ZWITTERIONIC POLYSACCHARIDES AND PEPTIDE MIMETICS PREVENTS ANTRABDOMINAL ABSCESS FORMATION." ABSTRACTS OF THE 99 TH GENERAL MEETING OF THE AMERICAN SOCIETY FOR MICROBIOLOGY, CHICAGO, US, MAY 30-JUNE 3, 1999, vol. 99, - 3 June 1999 (1999-06-03) pages 37-38, XP002150694 WASHINGTON, US absract nr. B/D-45	1,3,4, 8-15,18, 19, 21-24, 27-32, 35,67, 70-74, 76-78, 81, 83-93, 95,96, 99-102

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FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 1-64, 67-146 (all in part)

Present claims 1-64 and 67-146 (all in part) relate to an extremely large number of possible compounds for use in a pharmaceutical composition and their use in methods of treatment in vitro or in vivo. Support within the meaning of Article 6 PCT and/or disclosure within the meaning of Article 5 PCT is to be found, however, for only a very small proportion of the compounds claimed for use in a pharmaceutical composition and in the methods of treatment. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Consequently, the search has been carried out for those parts of the claims which appear to be supported and disclosed, namely those parts relating to the compounds as specified in the examples 2-9 and 12-14, i.e. Bacteroides fragilis capsular polysaccharide A (PS A), Streptococcus pneumoniae type 1 capsular polysaccharide (CP) and 'K-D!n peptides.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

International application No. PCT/US 00/08586

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Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely: Although claims 63-102 and 106-146 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. X Claims Nos.: 1-64, 67-146 (all in part) because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically: See FURTHER INFORMATION sheet PCT/ISA/210
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

ormation on patent family members

ternational Application No PCT/US 00/08586

Patent document cited in search report	rt	Publication date	Patent family member(s)	Publication date
DE 3704389	Α	25-08-1988	NONE	
WO 9607427	Α	14-03-1996	US 5679654 A US 5700787 A AU 1321799 A AU 702325 B AU 3543995 A CA 2197563 A EP 0778780 A JP 10507746 T	21-10-1997 23-12-1997 18-03-1999 18-02-1999 27-03-1996 14-03-1996 18-06-1997 28-07-1998
WO 9632119	Α	17-10-1996	US 5858964 A AU 706391 B AU 5547996 A CA 2215389 A EP 0871456 A JP 11503735 T	12-01-1999 17-06-1999 30-10-1996 17-10-1996 21-10-1998 30-03-1999